February 7, 1997

MEMORANDUM

TO: Orville D. Green, Assistant Administrator

Air & Hazardous Waste

FROM: Martin Bauer, Chiean

Air Quality Permitting Bureau

SUBJECT: Issuance of Tier II Operating Permit #777-00014 to

POE Asphalt Paving, Inc., Portable Hot Plant Madsen #1400

PURPOSE

The purpose for this memorandum is to satisfy the requirements of IDAPA 16.01.01 Sections 400 through 406 (Rules for the Control of Air Pollution in Idaho) for issuing Operating Permits.

PROJECT DESCRIPTION

This project is for an Operating Permit (OP) for the POE Asphalt Paving, Inc., portable Hot Plant Madsen #1400, Idaho. Emission sources existing at the facility are as follows: pre-dryer material handling; dryer and post-dryer material handling controlled by the cyclone and the baghouse in series; and fugitive dust from aggregate storage piles; paved and unpaved roads, and general maintenance.

SUMMARY OF EVENTS

On January 17, 1995, the Division of Environmental Quality (DEQ) received the facility's Tier II OP application. On December 4, 1995, the application was determined complete. On June 28, 1996, a proposed Tier II OP was issued for public comment. The public comment period was from July 11, 1996, through August 9, 1996. No comments were received.

RECOMMENDATIONS

Based on the review of the OP application and all applicable state rules and federal regulations concerning the permitting of air pollution sources, the Bureau staff recommends that POE Asphalt Paving, Inc., Idaho, be issued a Tier II OP for the portable Hot Plant Madsen #1400.

ODG\MB\YHC:jrj...\permit\poe\poe1400f.IMM

CC: J. Bellatty, LRO
OP File Manual
Source File
COF

June 28, 1996

MEMORANDUM

TO:

Brian R. Monson, Chief Operating Permits Bureau Permits and Enforcement

FROM:

Yihong Chen, Air Quality Engineer YC

Operating Permits Bureau

Darrin Mehr, Air Quality Engineer

Operating Permits Bureau

Mike Simon, Air Quality Engineer

Construction Permits Bureau

THROUGH:

Susan J. Richards, Air Quality Permits Manager

Operating Permits Bureau

SUBJECT:

Technical Analysis for Proposed Tier II Operating Permit #777-00014

POE Asphalt Paving, Inc., Portable Hot Plant Madsen #1400

PURPOSE

The purpose for this memorandum is to satisfy the requirements of IDAPA 16.01.01 Sections 400 through 406 (Rules for the Control of Air Pollution in Idaho) for issuing Operating Permits.

FACILITY DESCRIPTION

The Poe Asphalt Paving, Inc., portable hot plant Madsen #1400, currently located near Grangeville, Idaho, is used to process raw materials of aggregate and asphalt emulsion into asphaltic concrete.

Aggregate is loaded from stockpiles into the hopper of the cold feed bins by front end loader; the aggregate is metered from the hoppers onto a conveyer belt and is transported into the rotary dryer, where a diesel fueled burner is used to dry and heat the aggregate; after being dried and heated, the aggregate is lifted via the hot elevator to the Symons screens which are located just above the pug mill; the particulate collected by both the cyclone and the baghouse is transported by covered auger to the hot elevator; after screening, the hot aggregate drops into hot bins according to size; to control aggregate size distribution in the final batch mix, the operator opens various hot bins over a weigh hopper until the desired mix and weight are obtained; the mix drops into a pug mill and is dry-mixed; the liquid asphalt cement is then transferred to the pug mill where it is mixed with the aggregate for an additional period of time; then the hot mix may be dropped into a waiting truck, or in the absence of a truck, may be conveyed to the surge bin via the hot mix elevator.

Emissions from the drum dryer, post-dryer material handling; pug mill screens, and pug mill are controlled by passing through a cyclone and a baghouse in series. Other emissions are generated from pre-dryer material transport, handling, and storage, and fugitive road dust.

The facility was installed in the 1960s. No modification occurred after June 11, 1973 per applicant's submittal. Therefore, the facility is not subject to the New Source Performance Standards (NSPS) in accordance with 40 CFR 60, Subpart I.

PROJECT DESCRIPTION

This project is for a synthetic minor Operating Permit (OP) for the following process units and fugitive emission sources.

Process Units:

(1) Drum (Rotary) Dryer Burner - with a maximum rated heat input capacity of 100.05 Million British Thermal Unit per hour (MMBtu/hr), per applicant's submittal. The emissions from this source are controlled.

Drum Dryer Burner Specifications:

Manufacturer:

Gencore #751

Model:

\ a T

Fuel:

#1 or #2 fuel oil

Poe Madsen #1400 Plant June 28, 1996 Page 2

(2) Drum (Rotary) Dryer - with a maximum rated process hourly rate of 76 ton of aggregate per hour (ton/hr), per applicant's submittal. The emissions from this source are controlled.

Drum Drver Specifications:

Manufacturer:

Madsen

Model:

Not Available

(3) Pug Mill Screens - with a maximum rated process hourly rate of 76 ton of aggregate per hour (ton/hr), per applicant's submittal. The emissions from this source are controlled.

Pug Mill Screens Specifications:

Manufacturer:

Symons

Model:

Not Available

(4) Pug Mill - with a maximum rated process hourly rate of 80 ton of asphaltic concrete per hour (ton/hr), per applicant's submittal. The emissions from this source are controlled.

Pug Mill Specifications:

Manufacturer:

Madsen

Model:

Not Available

- (5) Material handling post-dryer material handling, transport, and storage. The emissions from this source are controlled.
- (6) Cyclone primary control device; captures particulate matter from the rotary dryer burner, rotary dryer, pug mill screens, post dryer material handling, and pug mill. The cyclone specifications are not available.
- (7) Baghouse secondary control device; captures particulate matter in the air stream from cyclone.

Bachouse Specification:

Manufacture Madsen
Model 4000 lb

Inlet Flow Rate Range
Inlet Gas Flow Temperature
Pressure Drop Range
Air/cloth Ratio

Not Available
Not Available
7.27: 1

Efficiency

98.88

Stack Specification:

Height: 16 feet
Exit Diameter: 26"x 24"
Exit Gas Flow Rate: 11,333 acfm
Exit Temperature: 350°F

- (8) Material handling pre-dryer material handling, transport, and storage.
- (9) Surge Bin hot mix asphalt concrete storage; emissions of particulate matter are negligible.

Fugitive sources:

- (1) Aggregates storage piles.
- (2) Road dust.
- (3) Screen changing and general maintenance.

A more detailed process description is found in the application materials.

Pog Madsen #1400 Plant June 28, 1996 Page 3

SUMMARY OF EVENTS

On January 17, 1995, the Division of Environmental Quality (DEQ) received a Tier II Operating Permit (OP) application prepared by Spidell & Associates. On February 9, 1995, DEQ returned the submittal due to the lack of signatures on the cover letter and application forms. The application materials of Grangeville facility, Madsen #1400, were resubmitted on June 16, 1995. On July 17, 1995, DEQ determined the application incomplete.

On August 9, 1995, DEQ received a letter dated August 8, 1995, written by Cameron Houlgate of Spidell 4 Associates indicating that the application for the Tier II permit was withdrawn. On August 18, 1995, Mr. Houlgate was contacted by Darrin Mehr, Air Quality Engineer, to clarify POE Asphalt's permitting intentions. On August 25, 1995, a letter was sent out by DEQ indicating that a Tier II permit is the appropriate method to limit facility's potential to emit.

A Permit to Construct (PTC) application for the Grangeville facility, Madsen #1400 was submitted to the Construction Permits Bureau (CPB) by Spidell & Associates and received on September 19, 1994. The application was transferred and received by Operating Permits Bureau (OPB) on November 3, 1995. Correspondence regarding the transfer of the PTC application to OPB by CPB was sent to POE Asphalt on November 3, 1995, and November 6, 1995. On December 4, 1995, DEQ determined the application complete.

On January 9, 1996, DEQ received a submittal regarding the installation or modification date of the facility. Based on the phone conversation between DEQ staff and Mr. Damon on February 1, 1996, and the letter received by DEQ on February 7, 1996, the facility voluntarily granted DEQ a forty five (45) day extension period.

On March 15, 1996, DEQ sent a letter requesting additional information which was necessary in order to complete the technical analysis. On March 26, 1996, POE granted DEQ a forty eight (48) day extension. On April 12, 1996, DEQ sent a second request letter requesting that POE submit the supplemental information addressed in the letter dated March 15, 1996 by April 19, 1996. On April 23, 1996, POE provided part of requested information by phone. On April 26, 1996, POE granted DEQ an extension for a proposed permit until May 10, 1996. On May 6, 1996, POE supplied information on its drum (rotary) dryer burner. On May 9, 1996, POE granted DEQ an extension for a proposed permit until May 17, 1996.

A public comment period has been scheduled for the proposed permit.

DISCUSSION

Emission Estimates

Emission estimates were provided by POE Asphalt Paving, Inc., as prepared by the facility's consultant, Spidell and Associates, and can be seen in the June 16, 1995, application and in the September 19, 1995, amended application. DEQ also estimated the PM, PM-10, SO_2 , NO_x , CO, VOC, and HAPs emissions from process units using emission factors from AP-42, Section 11.1 (Hot Mix Asphalt Plants, 1/95), Section 13.2.4 (Aggregate Handling and Storage Piles, 1/95), Section 1.3 (Fuel Oil Combustion, 1/95), and Section 8.19.1 (Sand and Gravel Processing, 9/91). The calculation spreadsheet of permitted emissions is in Appendix A.

PM-10 and SO₂ are the pollutants that trigger major source status for the POE Asphalt Paving, Inc., Portable Hot Plant Madsen #1400, in accordance with DEQ policy (April 4, 1996). The potential to emit (PTE) of PM-10 is above 100 T/yr, which was calculated by adding PM-10 emissions from stack and that from process units at its design capacity and operated at 8760 hours per year. The PTE of SO₂ is also above 100 T/yr, and was calculated at the drum (rotary) dryer burner's design capacity and operated at 8760 hours per year. The calculation spreadsheet of PTE is in Appendix B (prior to permitting).

The applicant chose to net out of major source Tier I permitting requirements by limiting the PTE of PM-10 and SO_2 to less than 100 T/yr each. The applicant accepted enforceable limits as follows: 1) product rate of asphaltic concrete shall not exceed 700,800 tons per year; 2) the #1 or #2 fuel oil usage of entire facility shall not exceed 3,568,355 gallons per year; 3) primary (the cyclone) and secondary (the baghouse) control devices shall be used to control the emissions generated from rotary dryer burner, rotary dryer, post-dryer material handling, pug mill screens and pug mill, and the pressure drop across the cyclone and the baghouse shall be within the range of 5° -7" water gauge; 4) fugitive dust generated from roads, storage piles, screen changing and general maintenance shall be reasonably controlled.

The applicant has been unable to supply manufacturer's specifications and operating recommendations for the control equipment. However, the pressure drop across the control equipment in series was provided by the applicant.

The applicant has been unable to supply the model for Drum Dryer, Pug Mill Screens, and Pug Mill. However, the design rated capacity was given for each equipment.

The summary of the emissions under permitted limits can be found in Appendix C.

Compliance determination with the proposed emission limits shall be based on the sections, OPERATING REQUIREMENTS and MONITORING AND RECORDKEEPING REQUIREMENTS, in the permit.

2. Area Classification

POE Asphalt Paving, Inc., Portable Hot Plant Madsen #1400, is permitted to be operated in areas classified as attainment or unclassifiable for all federal and state criteria air pollutants (i.e., PM, PM-10, CO, NO $_{x}$, and SO $_{2}$).

3. Facility Classification

The facility is not a designated facility as defined in IDAPA 16.01.01.006.25. The facility is classified as an A2 source because the actual emissions of PM-10 and SO, are less than 100 tons per year, respectively.

4. Regulatory Review

This operating permit is subject to the following permitting requirements:

a. b. c. d.	IDAPA 16.01.01.123 IDAPA 16.01.01.135 IDAPA 16.01.01.401 IDAPA 16.01.01.403 IDAPA 16.01.01.404.01(c)	Certification of documents Excess Emissions Reports Tier II Operating Permit. Permit Requirements for Tier II Sources. Opportunity for Public Comment.
e. f.	IDAPA 16.01.01.404.04	Authority to Revise Operating Permits.
g. h.	IDAPA 16.01.01.406	Obligation to Comply.
h.	IDAPA 16.01.01.470	Permit Application Fees for Tier II Permits.
1.	IDAPA 16.01.01.500	Registration Procedures and Requirements for Portable equipment.
j.	IDAPA 16.01.01.625	Visible Emission Limitation.
j. k.	IDAPA 16.01.01.650	General Rules for the Control of fugitive Dust.
1	IDAPA 16.01.01.728	Distillate Fuel Oil
m.	IDAPA 16.01.01.805	Rules for Control of Hot-Mix Asphalt Plants.

Modeling

No modeling was performed for this project.

FEES

Fees apply to this facility in accordance with IDAPA 16.01.01.470. The facility is subject to permit application fee for Tier II permits of five hundred dollars (\$500.00). IDAPA 16.01.01.470 became effective on March 7, 1995.

AIRS

AIRS data entry sheet can be found in Appendix D.

RECOMMENDATIONS

Based on the review of the Operating Permit application and applicable state and federal rules and regulations concerning the permitting of air pollution sources, the Bureau staff recommends that POE Asphalt Paving, Inc., be issued a Tier II Operating Permit for the Portable Hot Plant Madsen #1400. An opportunity for public comment shall be provided as required by IDAPA 16.01.01.404.01. Staff also recommends that the facility be notified of the Tier II permit fee requirement in writing. This fee will be applicable upon issuance of the permit.

BRM\S3R\YC:jrj...\permits\poel400\poel400.7744

APPENDIX A

Appendix A-1

Company Name: Project:		POE Asphal Permit limit Grangeville,	s (PM10			-	*		Engine Date:	eer;	Yihong 13-May-96		:
SUM(PM10,pcr,T/yr)= SUM(SO2,pcr,T/yr)= SUM(PM,pcr,T/yr)=	20.47 95.01 140.21												
Operating hours per year=		8,760											
Fuel oil sulfure content=			*										
Reference	Process	Poll-	Procs.	Unit	EF#	Unit	Uncontl, E	mis.	Contl	Contl Em		Remark	95% of product
	Pre-dryer	tanis	Rate				(lb/hr)	(T/yr)	EAT.	lib/hr	T/yr	Per application, aggregates E (lb/hr) = EP (lb/T) * pro.rate (l E(T/yr)=E(lb/hr)*Oper hour(hr/yr	T/hr)
AP-42,13.2.4(1/95)	loader -> cold aggregate bins	PM10	76	TofA/hr	0.001	ib/T	0.08	0.35	0.09	6 0.08	0.35	Mean wind speed (U, mph)=	10
AP-42,13.2.4(1/95)	cold aggregate bins->conveyor	PMIO		TofA/hr			0.08	0.35		6 0.08	0.35	Moisture content (M%)=	4 %
AP-42,13.2.4(1/95)	conveyor -> drum dryer	PM10	76	TofA/lu	0.001	њ/т	0.08	0.35	0.09	80.08	0.35	Particle size multiplier(k)= E(lb/T)=k*(0.0032)*((U/5)^(1.3)) TofA= ton of aggragate	0.35 PM10 (< 10 microma //((M/2)^(1.4))
SUM(PM10)	1.0-	ton/yr	0.24	lb/hr									
	Duran											Per App. control efficiency of baj	phones = 98 1%
AP-42.T11.1-2(1/95)	Dryer	PM10	90	TofP/hr	4 6	lb/TofP	360.00	1576.80	98.81	% 4,32	18 97	TofP= ton of product	Burney - Sa. a to
AP-42,T11.1-2(1/95)		PM		TofP/hr		lb/TofP	2560.00	11212.80				Default Value (MMBtu)=(M%*0	.476+0.98*80(ton/yr))/10
AP-42,T1.3-2(1/95)		CO		Oal/hr		lb/10^3gal	2.04	8.92				Gal/hr = 100.05 (MMBtu/hr)/0.1	· •
AP-42,T1.3-2(1/95)		NOx	101,0	Catiti		1b/iO^3gal	8.15	35.68				per information provided by appli	_
AP-42,T1.3-2(1/95)		SO2				1b/10^3gal	28.92	126.68				25.0% control efficiency per gene	
AP-42,T1.3-4(1/95)		VOC				1b/10^3gal	0.08	0.36					•
SUM(PM10)	18.9 Post-drycr	2 ton/yr	4.32	lb/fur									Š
AP-42,13.2.4(1/95)	dryer->siat conveyor	PM10	76	TofA/h	0.001	lb/T	0.08	0.39	98.8	% 0.00	0,00	•	
AP-42,13.2.4(1/95)	conveyor->pug mill screens	PM10		TofA/h			0.08		98.8				
AP-42,8.19.1(9/91)	screening process	PMIO		TofA/h			9.12		98.8				
		PM		TofA/h			12.16	53.26	98.8	% 0.15	5 0.64	1	
AP~42,13.2.4(1/95)	pug mill screens->clevator	PM10	76	TofA/h	0.001	lb/T	0.08	0.35	98.8	% 0.00	9 0.00)	
AP-42, 13.2.4(1/95)	elevator->hot bins	PM10	76	TofA/h	0.001	lb/T	0.08	0.35	98,8	% 0.00	0.00)	
AP-42,13.2.4(1/95)	hot bins->weigh hopper	PM10	76	TofA/h	0.001	ib/T	0.08	0.33	98.8	% 0.00	0.00)	
AP-42, 13, 2, 4(1/95)	weigh hopper->pug mill	PM10	76	TofA/h	0.001	Ib/T	0.08	0.35	98.8	% 0.00	0.00	•	
	emissions after pug mill negligible	PMIO											
SUM(PM-10)	A C	O ton/yr	0 12	lb/hr					•				
dryer,post-dryer(PM10)		3 ton/yr		lb/hr									
(PM)		9 ton/yr		lb/hr									
** = = r	\$,3 5 ,\$		J. 90	- 347 IN									

APPENDIX B

Appendix B-1

						Appendix B-	ł					
Company Name:		POE Asphalt	***		aa 1400, post	able		Engineer		Yihong		
Project:		PTE (PM10) Grangovillo,		on.				Dasos		13-May-96		
SUM(PMIO, T/yr)=	1619.88	MAX(HAPs,	, T/yr)=	1.58	SUM(NOx	, T/ye)=		62.60				
SUM(502, T/yr)=	166.68	SUM(HAPs,	T/yr)=	7.72	SUM(VOC	deyer, T/ye)		0.63				
SUM(PM, T/yr)→	11275.01	SUM(CO, T	/yt)=	15.65								
Operating hours per year	***	B760										
Fuel oil mature content-		9.5	5									
Reference	Process	Poli-	Procs.	Unit	EF.	Unde	Uncontt. E	izeda.		Contl	Remark	
		tanis	Rate						Eff.	Entise.	Per application, aggregatem	95% of product
	Pre-Dryer						(lb/ht)	(T/yr)		T/yt	E (lb/hr) = EF (lb/T) * pro.mie (T/hr) E(T/yr)=E(lb/hr)*Oper hour(hr/yr)/200	0(Ib/T)
AP-42,13.2.4(1/95)	londer -> cold aggregate bins	PMIO	76	TofA/hr	9.001	lb/T	9.08	0.35	0.0%	0.35	Moan wind speed (U, mph)=	10
muzic sa above	oold aggregate bins->conveyor	PM10	76	TofA/hr	\$.801	IMT .	0.02	0.35	0.0%	0.35	Mointare conton (MS)=	4 %
evoda za prime	conveyor -> drum drynr	PMIO	76	TofA/br	0.001	ìь∕Т	0.08	0.35	0.0%	0,35	Particle size multiplier(k)= E(lb/T)=k*(0.0032)*((U/S)^(1.3))/(lb/ TofA= ton of aggragate	0,35 PM10 (< 10 microma (2)^(1.4))
SUM(PM)0, T/yr)	1.04											
	Dryer											
AP-42,T11.1-2(1/95)		PM10		TofP/ht		ID/TofP	360.00	****			ToP= ton of product	
AP-42,T11.1-2(1/95)		PM		TofP/hr		No. Lott	2560.00					
AP-42,T1.3~2(1/95)		CO	714.6	Gat/hr		lb/10~3gai	3.57	15.65			•	dBtw/gal)
AP-42,T1.3-2(1/95) AP-42,T1.3-2(1/95)		NOx				IP/10,350;	14.29	62.60				
AP-42,T1.3-4(1/93)		SO2 VOC				lb/10*3gel lb/10*3gel	50.74 0.14					
SUM(PM10, T/yr)	1574.80 Post dryer											
AF 42,13.2.4(1/95)	dryer > let conveyor	PMIO	76	TofA/br	0.001	IMT	0.00	9.35	0.09	6 0.35	i	
	oonvoyor->pug mili soreens	PM 10	76	TofA/br	0.001	Ib/T	0.08	0.35	0.01	6 0,35	¥	
AP-42,8,19,1(9/91)	screening process	PM10	76	TofA/hr	0,12	int	9.12	39.95	0.09	\$ 39.95	l e	
		₽M	76	TofA/hr	0.16	IP.I.	12.16	\$3.26	0.09			
	pug mili soroons->cievator	PMIG		TofA/br		Ib/T	0.00					
	olovator->hot bine	PM10		TofA/hr	0.001		0.00					
	has bine->weigh hopper	PM16		TofA/hr	0.081		0.08					
	weigh hopper->pug mill canissions after pug mill negligible	PMIO	70	TofA/hr	0.061	H-T	0.08	0.33	0.01	6 9.35	•	
0111 t/01410 T												
SUM(PM10, T/yr)	42.63 HAPs from Aspinsk Plant	1										
AP-42,T11.1-9(1/95)	STATE STORY VARIABLE LINES	CASRN										
		75070	90	TofP/ht	8.00064	H/TofP	0.05	9.27	2 0.01	6 0.23	Assume con, off of fabric filter is	99%
		71433		TofP/hr		1b/TofP	0.03					
		10041		TofP/br		16/TofP	0.20				EFs(w/o cont)=EFs(w/ cont)/(i - cont	
		50000		TofP/hr		lb/TefP	0.07					•
		91203(ъ)	80	TofP/hr	0.0042	INTOP	0.34	1.4	7 0.01	K 1.4	1	
		10651	4 80	TofP/hr	0.00027	1b/TofP	0.64	0.0	0.0	% 0.0		

				Whitedatry pi_7				coerate
108883	80	TofP/hr	0,0018	1b/TafP	0.14	0.63	0.0%	0.63
1330207	80	TofP/hr	0.0043	ToTP (0.34	1.51	0.0%	1.51
91203(ъ)	80	TofP/hr	0.0043	lb/TofP	0.36	1.58	0.0%	1.58
Aresnio	\$0	TofP/hr	0.000066	ib/TofP	0.01	0.02	0.0%	0.02
Beryllium	80	TofP/hz	0.000022	lb/TofP	0.00	0.01	0.0%	0.01
Cadmium	#0	TofP/hr	0.000004	Ib/TofP	0.01	0.63	0.0%	0.03
Chromium	\$0	TofP/hr	0.0000089	Ib/TofP	0.01	6.63	0.0%	0.03
Hoxevalent-	80	TofP/hr	0.000000	ToTV4I	0.00	0.00	0.0%	0.00
Chromium								
Load	80	TofP/hr	0.000674	lb/TofP	0.01	0.03	0.0%	0.03
Макулосо	80	TofP/hr	0.00099	(b/TofP	6.68	0.35	0.0%	0.35
Mercury	80	TofP/ht	0.000045	INTOPP	9.00	6.02	0.05	0.02
Nickel	80	TofP/hr	0.00042	Ib/TofP	0.03	0.15	0.0%	0.15
Selonium	80	TofP/hr	0.000009	lb/TofP	0.00	0.00	0.0%	0.00

AP-42,T11.1-12(1/95)

APPENDIX C

APPENDIX D

Appendix D

ABBREVIATED AIRS DATA ENTRY SHEET

Name of Facility: Pot Asphalt Paving AIRS/Permit #: 777 - 600/4	Inc. Portable tot	Plant Madsen #
AIRS/Permit #: 777 - 600/4		
Permit Issue Date:		
*Source/Emissions Unit Name (25 spcs) (Please use name as indicated in permit)	<u>SCC #</u> (8 digit #)	Air Program (SIP/NESHAP/ HSPS/PSD)
* Cold Aggregate Handling	30 <i>55</i> 020 U	SIP
RETARY Drum Drust	305-9670	SIP
Hot I Elevator	305002	1/
Pugmill Screens	·/	17
Hot Bins	V.	1,
Puomili	17	÷ /
Sterage piles	20 Fm2 03	3 .*
Plant Cond	36567291	
	***************************************	******
	480000000000000000000000000000000000000	·····
		· · · · · · · · · · · · · · · · · · ·

RETURN TO PAT RAYNE AIRS-PT.LST (9/95)